

Title (en)

LIGHT SOURCE FOR VARIABLE PATH LENGTH SYSTEMS

Title (de)

LICHTQUELLE FÜR SYSTEME MIT VARIABLER WEGLÄNGE

Title (fr)

SOURCE DE LUMIÈRE POUR SYSTÈMES À LONGUEUR DE TRAJET VARIABLE

Publication

**EP 4185847 A4 20240710 (EN)**

Application

**EP 21847344 A 20210713**

Priority

- US 202016935454 A 20200722
- US 2021041423 W 20210713

Abstract (en)

[origin: US2022026272A1] A system for determining a characteristic of a sample includes a light source for directing light into an input of a spectrometer. The spectrometer splits the received light into light outputs each having a different wavelength. An active wavelength selection module (AWSM) includes an optical receiving component (ORC). An actuator is coupled to the spectrometer and/or the ORC to adjust a relative position between the spectrometer and the AWSM so that light is receivable by the ORC from a selected one of the plurality of light outputs. The ORC is configured to direct the received light to a sample. A collector is positioned to collect a portion of light that passes through the sample, and to deliver the collected light to an analysis module. The analysis module is configured to determine a quantity of light transmitted through the sample and to correlate transmitted light with a characteristic of the sample.

IPC 8 full level

**G01J 3/02** (2006.01); **G01J 3/08** (2006.01); **G01J 3/10** (2006.01); **G01J 3/32** (2006.01)

CPC (source: EP KR US)

**G01J 3/0216** (2013.01 - EP KR US); **G01J 3/0218** (2013.01 - EP KR US); **G01J 3/08** (2013.01 - EP KR); **G01J 3/10** (2013.01 - EP KR US); **G01J 3/32** (2013.01 - EP KR); **G01N 2201/0668** (2013.01 - EP KR)

Citation (search report)

- [XII] US 4703175 A 19871027 - SALOUR MICHAEL M [US], et al
- [XII] US 2014240951 A1 20140828 - BRADY GREGORY R [US], et al
- [XII] JP 3473524 B2 20031208
- [AD] US 9939373 B2 20180410 - SALEMO MARK [US], et al
- See references of WO 2022020138A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 11300447 B2 20220412; US 2022026272 A1 20220127**; CN 116507891 A 20230728; EP 4185847 A1 20230531; EP 4185847 A4 20240710; JP 2023534613 A 20230810; JP 7477072 B2 20240501; KR 20230096960 A 20230630; US 2022187125 A1 20220616; WO 2022020138 A1 20220127

DOCDB simple family (application)

**US 202016935454 A 20200722**; CN 202180058990 A 20210713; EP 21847344 A 20210713; JP 2022576798 A 20210713; KR 20237006159 A 20210713; US 2021041423 W 20210713; US 202217688483 A 20220307